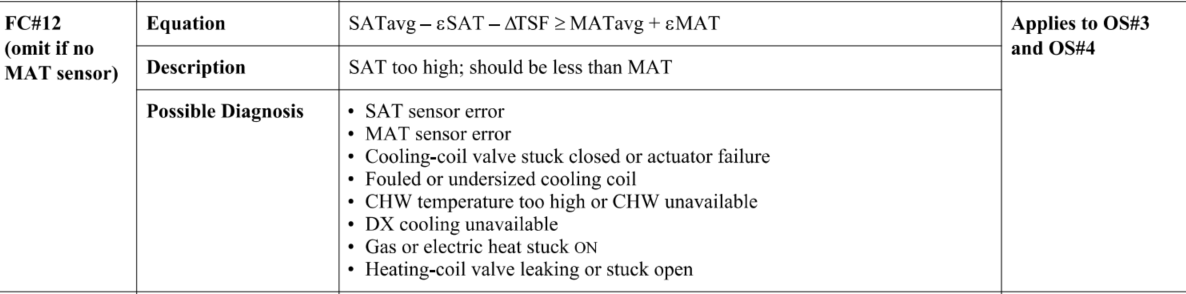
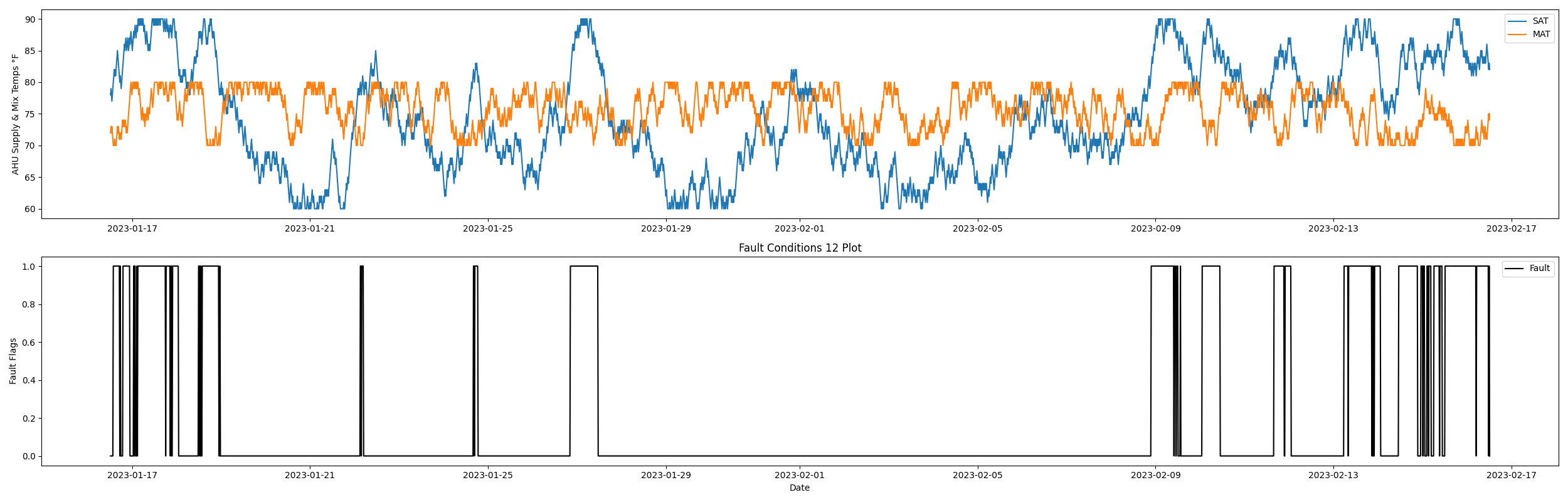
Fault Condition Twelve Report

Fault condition twelve of ASHRAE Guideline 36 is an AHU economizing mode only fault equation with an attempt at verifying an AHU mixing and supply temperature accuracy. Fault condition twelve equation as defined by ASHRAE:



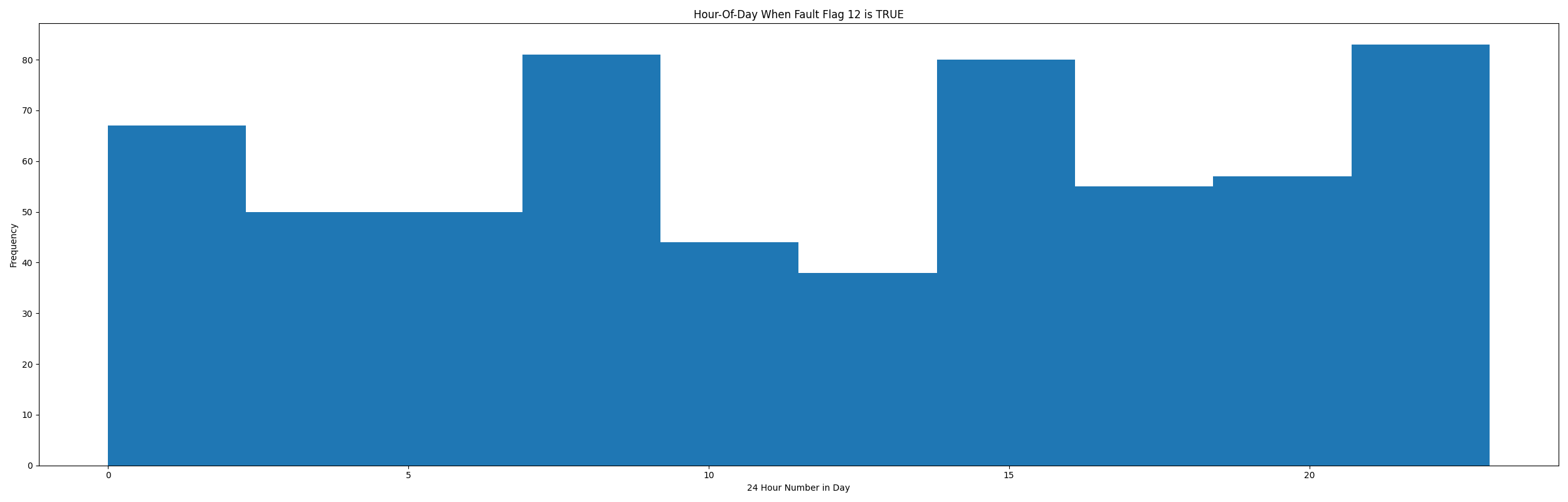
## Dataset Plot



## Dataset Statistics

* Total time in days calculated in dataset: 30.99
* Total time in hours calculated in dataset: 743.75
* Total time in hours for when fault Flag 12 is True: 151.25
* Percent of time in the dataset when the fault Flag 12 is True: 20.33%
* Percent of time in the dataset when fault Flag 12 is False: 79.67%

## Time-of-day Histogram Plots



* When fault condition 12 is True the average supply temperature is 86.27°F. This data along with time-of-day could possibly help with pin pointing AHU operating conditions for when this fault is True.

## Supply Temp Statistics

* count 2976.00000  
  mean 74.47547  
  std 8.49728  
  min 60.00000  
  25% 68.00000  
  50% 74.00000  
  75% 82.00000  
  max 90.00000  
  Name: sat, dtype: float64

## Mix Temp Statistics

* count 2976.000000  
  mean 75.668347  
  std 3.121175  
  min 70.000000  
  25% 73.000000  
  50% 76.000000  
  75% 78.000000  
  max 80.000000  
  Name: mat, dtype: float64

## Suggestions based on data analysis

* The percent True metric that represents the amount of time for when the fault flag is True is high indicating the AHU temperature sensors are out of calibration

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